

<110> Franklin, Richard L.
Cowling, Didier S.P.
Hubbel, Jeffrey A.
van de Wetering, Petra

<130> 314572-103

<150> US 09/256,484

<151> 1999-02-23

<160> 17

<170> FastSEQ for Windows Version 4.0

<210> 1

$\langle 211 \rangle$ 300

<212> PRT

<213> *Panaeus vanameii*

 $\langle 400 \rangle$ 1

Leu	Leu	Leu	Ala	Leu	Val	Ala	Ala	Ala	Ser	Ala	Ala	Glu	Trp	Arg	Trp
1				5					10					15	
Gln	Phe	Arg	His	Pro	Thr	Val	Thr	Pro	Asn	Pro	Arg	Ala	Lys	Asn	Pro
			20					25					30		
Phe	Arg	Val	Thr	Lys	Ser	Ser	Pro	Val	Gln	Pro	Pro	Ala	Val	Arg	Gly
			35				40					45			
Thr	Lys	Ala	Val	Glu	Asn	Cys	Gly	Pro	Val	Ala	Pro	Arg	Asn	Lys	Ile
	50					55					60				
Val	Gly	Gly	Met	Glu	Val	Thr	Pro	His	Ala	Tyr	Pro	Trp	Gln	Val	Gly
65				70						75					80
Leu	Phe	Ile	Asp	Asp	Met	Tyr	Phe	Cys	Gly	Gly	Ser	Ile	Ile	Ser	Asp
			85					90						95	
Glu	Trp	Val	Leu	Thr	Ala	Ala	His	Cys	Met	Asp	Gly	Ala	Gly	Phe	Val
			100					105					110		
Glu	Val	Val	Met	Gly	Ala	His	Ser	Ile	His	Asp	Glu	Thr	Glu	Ala	Thr
		115					120					125			
Gln	Val	Arg	Ala	Thr	Ser	Thr	Asp	Phe	Phe	Thr	His	Glu	Asn	Trp	Asn
	130					135					140				
Ser	Phe	Thr	Leu	Ser	Asn	Asp	Leu	Ala	Leu	Ile	Lys	Met	Pro	Ala	Pro
145				150						155					160
Ile	Glu	Phe	Asn	Asp	Val	Ile	Gln	Pro	Val	Cys	Leu	Pro	Thr	Tyr	Thr
			165					170						175	
Asp	Ala	Ser	Asp	Asp	Phe	Val	Gly	Glu	Ser	Val	Thr	Leu	Thr	Gly	Trp
			180					185					190		
Gly	Lys	Pro	Ser	Asp	Ser	Ala	Phe	Gly	Ile	Ala	Glu	Gln	Leu	Arg	Glu
		195				200						205			
Val	Asp	Val	Thr	Thr	Ile	Thr	Thr	Ala	Asp	Cys	Gln	Ala	Tyr	Tyr	Gly
	210					215				220					
Ile	Val	Thr	Asp	Lys	Ile	Leu	Cys	Ile	Asp	Ser	Glu	Gly	Gly	His	Gly
225				230						235					240
Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Met	Asn	Tyr	Val	Thr	Gly	Gly
			245					250						255	
Val	Thr	Gln	Thr	Arg	Gly	Ile	Thr	Ser	Phe	Gly	Ser	Ser	Thr	Gly	Cys
			260					265					270		
Glu	Thr	Gly	Tyr	Pro	Asp	Gly	Tyr	Thr	Arg	Val	Thr	Ser	Tyr	Leu	Asp

275 280 285
 Trp Ile Glu Ser Asn Thr Gly Ile Ala Ile Asp Pro
 290 295 300

<210> 2
 <211> 25
 <212> PRT
 <213> *Panaeus vanameii*

<400> 2
 Ile Val Gly Gly Val Glu Ala Thr Pro His Ser Trp Pro His Gln Ala
 1 5 10 15
 Ala Leu Phe Ile Asp Asp Met Tyr Phe
 20 25

<210> 3
 <211> 20
 <212> PRT
 <213> a

<220>
 <221> VARIANT
 <222> (1)...(20)
 <223> Xaa = Any Amino Acid

<400> 3
 Ile Val Gly Gly Val Glu Ala Thr Pro His Ser Xaa Pro His Gln Ala
 1 5 10 15
 Ala Leu Phe Ile
 20

<210> 4
 <211> 25
 <212> PRT
 <213> *Panaeus monodon tryptic*

<400> 4
 Ile Val Gly Gly Thr Ala Val Thr Pro Gly Glu Phe Pro Tyr Gln Leu
 1 5 10 15
 Ser Phe Gln Asp Ser Ile Glu Gly Val
 20 25

<210> 5
 <211> 25
 <212> PRT
 <213> *Panaeus monodon chymotryptic*

<400> 5
 Ile Val Gly Gly Val Glu Ala Val Pro Gly Val Trp Pro Tyr Gln Ala
 1 5 10 15
 Ala Leu Phe Ile Ile Asp Met Tyr Phe
 20 25

<210> 6
 <211> 25
 <212> PRT
 <213> *Panaeus monodon chymotryptic*

<400> 6
 Ile Val Gly Gly Val Glu Ala Val Pro His Ser Trp Pro Tyr Gln Ala
 1 5 10 15

1993-09-01 10:00:00

```
<210> 7
<211> 25
<212> PRT
<213> Uca pugilator enzyme
```

```

<400> 7
Ile Val Gly Gly Val Glu Ala Val Pro Asn Ser Trp Pro His Gln Ala
 1          5          10          15
Ala Leu Phe Ile Asp Asp Met Tyr Phe
 20          25

```

```
<210> 8
<211> 20
<212> PRT
<213> Uca pugilator enzyme
```

```
<400> 8
Ile Val Gly Gly Gln Asp Ala Thr Pro Gly Gln Phe Pro Tyr Gln Leu
 1             5             10             .15
Ser Phe Gln Asp
      20
```

```
<210> 9
<211> 20
<212> PRT
<213> Kamchatka crab
```

```
<220>  
<221> VARIANT  
<222> (1)...(20)  
<223> Xaa = Any Amino Acid
```

```

<400> 9
Ile Val Gly Gly Gln Glu Ala Ser Pro Gly Ser Trp Pro Xaa Gln Val
 1          5          10          15
Gly Leu Phe Phe
          20

```

```
<210> 10
<211> 20 -
<212> PRT
<213> Kamchatka crab
```

```

<400> 10
Ile Val Gly Gly Thr Glu Val Thr Pro Gly Glu Ile Pro Tyr Gln Leu
 1          5          10          15
Ser Leu Gln Asp
      20

```

```
<210> 11
<211> 20
<212> PRT
<213> Kamchatka crab
```

```
<400> 11
Ile Val Gly Gly Thr Glu Val Thr Pro Gly Glu Ile Pro Tyr Gln Leu
 1             5             10             15
Ser Phe Gln Asp
```

```
<210> 12
<211> 20
<212> PRT
<213> Kamchatka crab
```

```
<220>  
<221> VARIANT  
<222> (1) ... (20)  
<223> Xaa = Any Amino Acid
```

```
<400> 12
Ile Val Gly Gly Ser Glu Ala Thr Ser Gly Gln Phe Pro Tyr Gln Xaa
  1                               10                   15
Ser Phe Gln Asp
           20
```

```
<210> 13
<211> 20
<212> PRT
<213> Crayfish protease
```

```

<400> 13
Ile Val Gly Gly Thr Asp Ala Thr Leu Gly Glu Phe Pro Tyr Gln Leu
  1                    5                10                15
Ser Phe Gln Asn
          20

```

```
<210> 14
<211> 25
<212> PRT
<213> Salmon enzyme
```

```

<400> 14
Ile Val Gly Gly Tyr Glu Cys Lys Ala Tyr Ser Gln Ala Tyr Gln Val
 1             5             10             15
Ser Leu Asn Ser Gly Tyr His Tyr Cys
      20             25

```

```
<210> 15
<211> 25 _
<212> PRT
<213> Atlantic cod
```

```

<400> 15
Ile Val Gly Gly Tyr Glu Cys Thr Lys His Ser Gln Ala His Gln Val
 1          5          10          15
Ser Leu Asn Ser Gly Tyr His Tyr Cys
      20          25

```

```
<210> 16
<211> 25
<212> PRT
<213> Atlantic cod
```

```

<400> 16
Ile Val Gly Gly Tyr Glu Cys Thr Arg His Ser Gln Ala His Gln Val
  1             5             10             15
Ser Leu Asn Ser Gly Tyr His Tyr Cys
      20             25

```

```

<400> 17
Ile Val Gly Gly Tyr Gln Cys Glu Ala His Ser Gln Ala His Gln Val
 1             5             10             15
Ser Leu Asn Ser Gly Tyr His Tyr Cys Gly Gly Ser Leu Ile Asn Trp
 20             25             30
Val Val Ser Ala Ala
 35

```